

AMENDMENTS TO THE SPECIFICATION

Please amend the Specification as follows:

On page 1 of the Specification:

Cross Reference to Related Applications

The present application is related to the following copending U.S. Patent Applications: U.S. Patent Application Serial No. 09/345,163 (Docket No. AT9-98-726) filed on 06/29/99, titled "Method And System For Counting Events Within A Simulation Model"; U.S. Patent Application Serial No. 09/729,465 (Docket No. AUS920000222US1) filed on December 29, 2000, titled "Embedded Hardware Description Language Instrumentation"; U.S. Patent Application Serial No. 09/751,802 (Docket No. AUS920000224) filed on December 29, 2000, titled "Naming And Managing Simulation Model Events"; U.S. Patent Application Serial No. 09/752,252 (Docket No. AUS920000225US1) filed on December 30, 2000, titled "Detecting Events Within Simulation Models"; U.S. Patent Application Serial No. 09/752,254 (Docket No. AUS920000228US1) filed on December 30, 2000, titled "Hierarchical Processing of Simulation Model Events"; and U.S. Patent Application Serial No. 09/751,803 (Docket No. AUS920000227US1) filed on December 29, 2000, titled "Signal Override For Simulation Models". The above-mentioned patent applications are assigned to the assignee of the present invention and are incorporated herein by reference.

On page 89, line 12 of the Specification:

With reference now to **FIG. 12B**, there is illustrated an exemplary HDL source code file **1220** that describes design entity **1200**. Within HDL source code file **1220**, an entity instantiation **1221** produces design entity **1201**, and assignment statements **1222** are utilized to generate signals *A*, *B*, and *C*. A set of ~~unconventional comments~~ instrumentation logic assignment statements 1223 using unconventional comment syntax within HDL source code file **1220** is utilized to produce instrumentation entity **1208**. ~~Comments~~ Assignment statements 1223 are formulated as left-hand side (l.h.s.)/right-hand side (r.h.s.) assignment statements of the form:

$$\{l.h.s.\} \leq \{r.h.s.\};$$

where $\{l.h.s.\}$, referred to herein after as *lhs*, is the assignment statement target and, $\{r.h.s.\}$, referred to herein after as *rhs* is an expression denoting the logical value to be assigned to the

statement *lhs*. A number of rules delineate the possible expressions for *lhs* and *rhs* in any legal statement in the instrumentation comments.

On page 90, line 1 of the Specification:

As employed within the instrumentation data structure of the present invention, an *lhs* statement may be either an event declaration or the name of a signal that is instantiated within an instrumentation entity. An event declaration is an expression within bracket characters (“[“, “]”) that generates a new event. Within ~~comments~~ assignment statements 1223, a statement 1230 produces a count event 1240 from instrumentation entity 1208 (FIG. 12A) having eventname “countname0”.

On page 90, line 19 of the Specification:

~~Comments~~ Assignment statements 1223 further include a line 1232 having an *lhs* that declares [[a]] an intermediate instrumentation signal *Q* within instrumentation entity 1208. To prevent ambiguity, any signal declared in this manner may not have a name corresponding to the name of any signal present on the top level of target design entity 1200. Conformance to this requirement is verified by instrumentation load tool 464 (FIG. 4D) during processing. Signals declared by an *lhs* expression may be incorporated within an *rhs* expression as shown in lines 1232 and 1234

On page 92, line 15 of the Specification:

As further depicted in FIG. 12B, statement 1232 produces intermediate instrumentation signal *Q* within instrumentation entity 1208. This is an example of an instrumentation comment statement declaring a new intermediate signal. These signals can be used in other statements to construct random instrumentation logic of any desired depth or complexity.